

Stanyl® TE351

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TE351 is a Polyamide 46 (Nylon 46) material. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TE351 are:
Flame Rated
Flame Retardant
Heat Stabilizer

General Information				
UL YellowCard		E43392-235039	E47960-462862	E172082-462863
Additive		Flame Retardant Heat Stabilizer		
Features		Flame Retardant Heat Stabilized		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	2.0	--	%	
Flow	2.0	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1200	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	45.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	20	> 50	%	ISO 527-2
Flexural Modulus	2500	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	5.0	kJ/m ²	
23°C	8.0	14	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	95	kJ/m ²	
23°C	85 kJ/m ²	No Break		
Notched Izod Impact Strength				ISO 180/1A

-40°C	5.0	5.0	kJ/m ²	
23°C	8.0	14	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	--	°C	ISO 75-2/A
Melting Temperature ¹	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	9.0E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned		Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	V-0	--		
1.50 mm	V-0	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	280 to 320		°C	
Middle Temperature	300 to 320		°C	
Front Temperature	300 to 320		°C	
Nozzle Temperature	300 to 320		°C	
Processing (Melt) Temp	310 to 320		°C	
Mold Temperature	80.0 to 120		°C	
Injection Rate	Moderate-Fast			
Back Pressure	2.00 to 10.0		MPa	
Screw Compression Ratio	2.5:1.0			
NOTE				
1.	10°C/min			

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